

FIG. 1

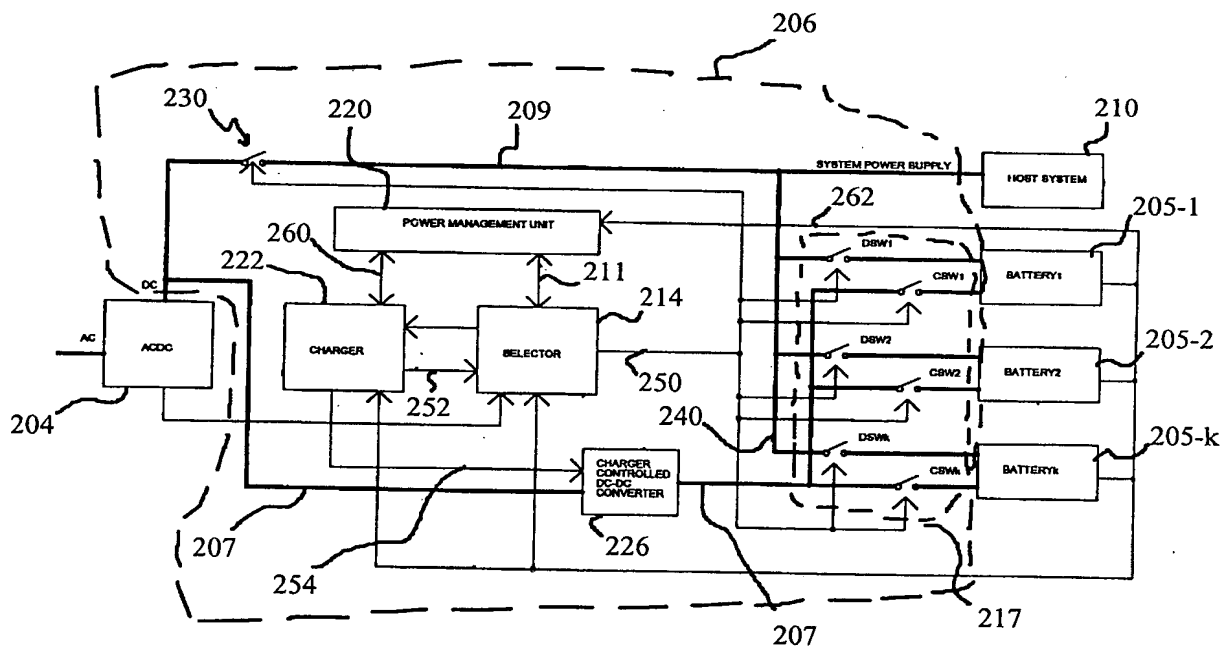


FIG. 2

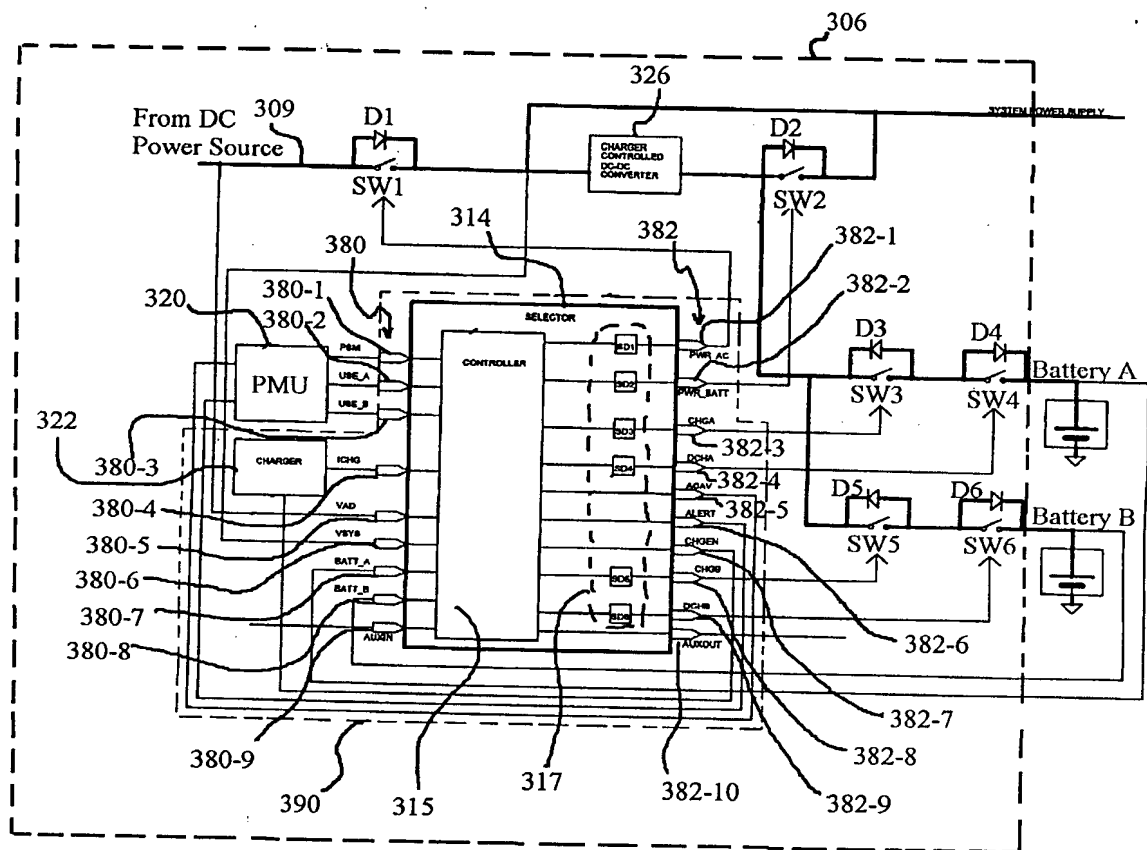


FIG. 3

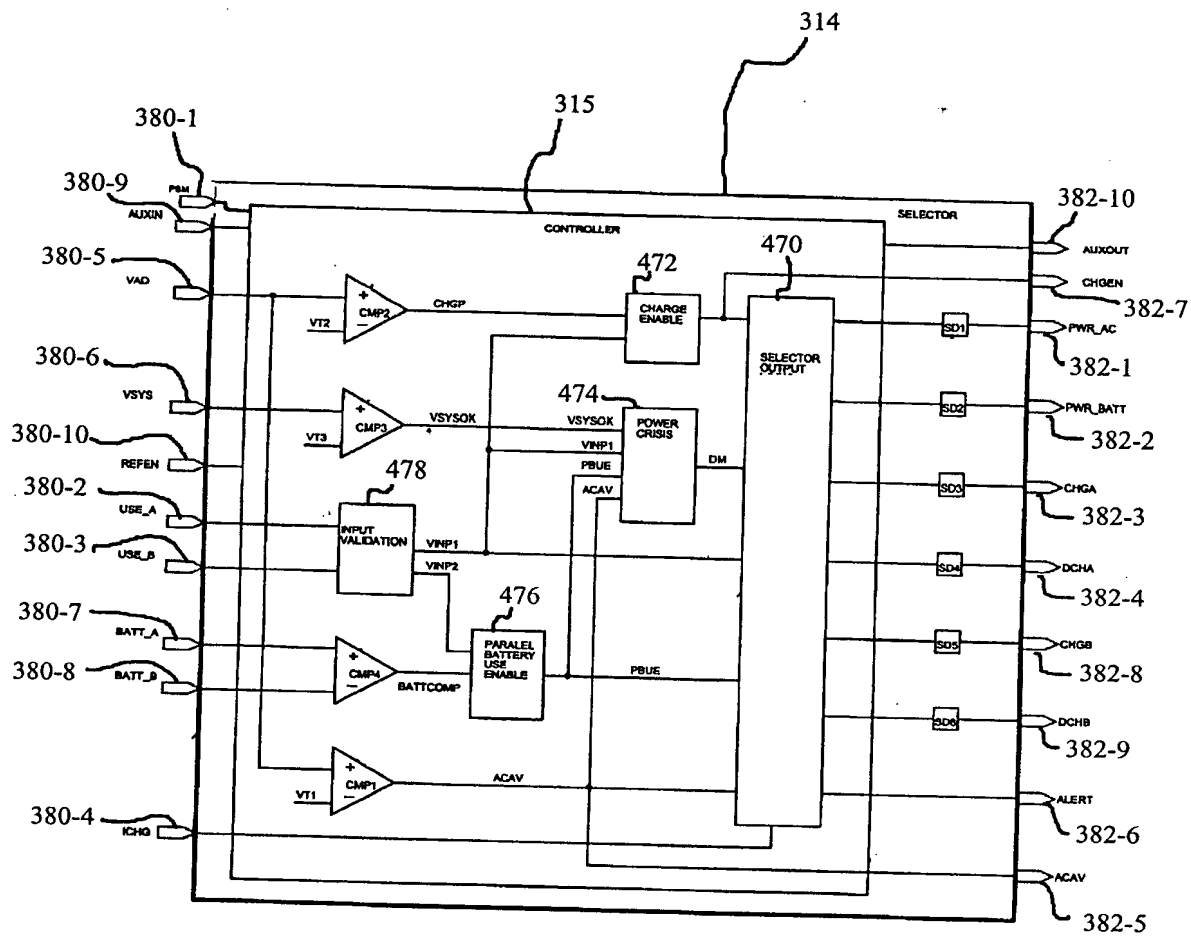


FIG. 4

500

Signal States	USE signals Indicate Battery A		USE signals Indicate Battery B		USE signals Indicate Battery A and B in parallel						USE signals Indicate neither Battery A or B				
	USE_A	USE_B	USE_A	USE_B	502	504	506	508	510	512	514	516	518	520	522
Lower voltage battery	low	high	low	low	low	high	high	low	low	low	low	low	low	low	high
Charging Current Signal	high	high	high	high	high	low	high	high	high	high	low	high	low	high	low
VINP1	high	high	high	high	high	high	high	high	high	high	high	high	high	high	low
CHGEN	high	high	high	high	high	high	high	high	high	high	high	high	high	high	low
PBUE	low	low	low	low	low	low	low	low	high	high	low	low	low	low	low
Switch States															
SW1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
SW2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF
SW4	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
SW5	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	ON	ON	OFF
SW6	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON	OFF	OFF	OFF	ON	OFF

FIG. 5

Supply Mode		Nbssm1		Nbssm2
Targeted Supply Battery		A	B	A+B
VINP1		high	high	high
VINP2		low	low	high
BATTCOMP		X	X	high
PBLUE		low	low	high
SW1	OFF	OFF	OFF	OFF
SW2	ON	ON	ON	ON
SW3	ON	OFF	ON	ON
SW4	ON	OFF	ON	ON
SW5	OFF	ON	ON	ON
SW6	OFF	ON	ON	ON

FIG. 6



FIG. 7

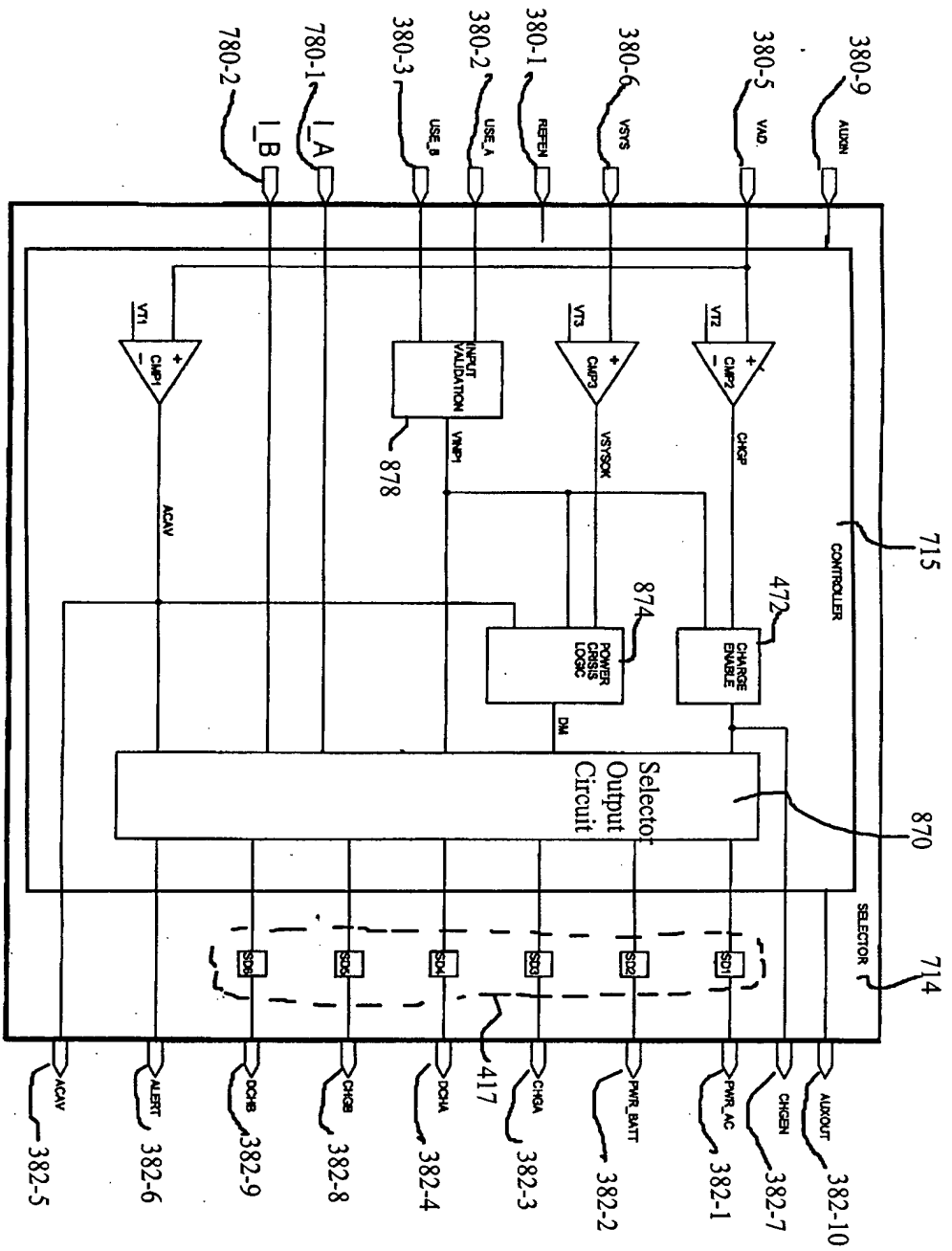


FIG. 8

900
2














	USE signals indicate Battery A				USE signals indicate Battery B				USE signals indicate Battery A and B in parallel				USE signals indicate neither Battery A or B	
	902	904	906	908	910	912	914	916		918				
<u>Signal States</u>														
USE A	low	low	high	high	low	low	low	low	low	low	low	high	high	
USE B	high	high	low	low	low	low	low	low	low	low	low	high	high	
Battery A current signal	low	high	low	low	low	high	low	high	low	high	high	low	low	
Battery B current signal	low	low	low	low	low	low	high	high	high	high	high	low	low	
VINP1	high	high	low	high	low	low	high	high	high	high	high	low	low	
CHGEN	high	high	high	high	high	high	high	high	high	high	high	low	low	
<u>Switch States</u>														
SW1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	
SW2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
SW3	ON	ON	ON	OFF	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	
SW4	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF	OFF	
SW5	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	
SW6	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	

FIG. 9

1000

	USE signals indicate Battery A	USE signals indicate Battery B	USE signals indicate Battery A and B in parallel			
Signal States	1002 — 1004	1006 — 1008	1010 — 1012	1014 — 1016		
USE A	low	low	high	high	low	low
USE B	high	high	low	low	high	high
Battery A current signal	low	high	low	low	high	high
Battery B current signal	low	low	high	low	high	high
VINP1	high	high	high	high	high	high
Switch States						
SW1	OFF	OFF	OFF	OFF	OFF	OFF
SW2	ON	ON	ON	ON	ON	ON
SW3	OFF	ON	OFF	ON	OFF	ON
SW4	ON	ON	OFF	ON	ON	ON
SW5	OFF	OFF	OFF	OFF	ON	ON
SW6	OFF	OFF	ON	ON	ON	ON

FIG. 10

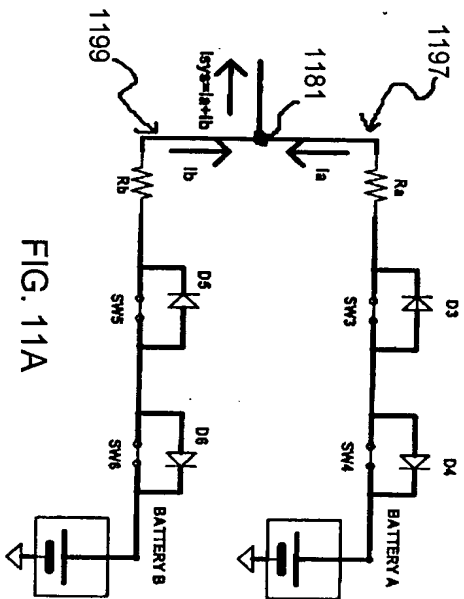


FIG. 11A

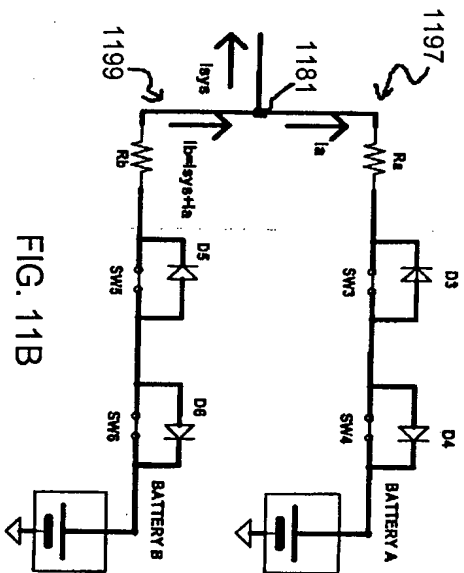


FIG. 11B

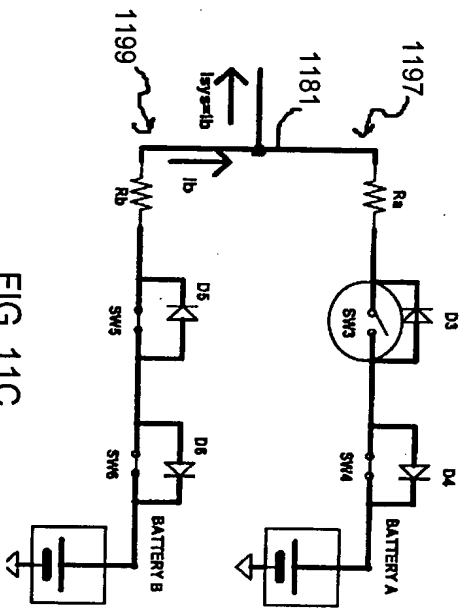


FIG. 11C